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CRUSTACEA

COMPILED BY

J. P. HARDING, Ph.D.

AND

R. W. INGLE

LONDON
PUBLISHED BY
THE ZOOLOGICAL SOCIETY OF LONDON

PRICE EIGHT SHILLINGS
1963

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Obituaries.—P. A. Chappuis, GORDON, I. (**3**) ; JEANNEL, R. ; VANDEL, A. (**4**) ; Mrs. W. E. Sexton, SPOONER, G. M. ; GORDON, I. (**2**) ; Dr. Stanko Karaman, KARAMAN, Z.

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Museums and Institutions.—Monaco Museum—Copepod types, BELLOC, G. (**1**) ; Amphipod types, BELLOC, G. ; Cumacea & Leptostraca types, BELLOC, G. (**2**) ; Isopod types, BELLOC, G. (**3**) ; Laboratoire Souterrain, VANDEL, A. (**5**).

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Excretory system.—Crayfish, MEREDITH, W. G., SCHWARTZ, F. J. ; *Berndtia*, UTINOMI, H. (**1**)

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Ecology of special forms.—Decapoda, ZARENKOV, N. A. ; *Pinnotheres*, SUGIURA, Y., KIHARA, M. & SUGITA, A. ; SUGIURA, Y., SUGITA, A. & KIHARA, M. ; *Pachygrapsus*, BOVBJERG, R. V. ; COSTA, H. R. da (**1**) ; Crayfish, MEREDITH, W. G. & SCHWARTZ, F. J. ; BROWN, P. L. ; *Jasus*, GRUA, P. ; *Caridina*, FRYER, G. ; *Crangon*, ALLEN, J. A. ; Substrate & shrimp distribution, WILLIAMS, A. B. (**1**) ; Atyidae, VILLALOBOS, F. A. (**1**) ; *Penaeus duorarum*, IVERSEN, E. S. & IDYLL, C. P. ; Xanthidae, KNUDSEN, J. W. (**0** & **2**) ; Amphipoda, DUHIG, M. ; HURLEY, D. E. (**1**) ; MAKKAVEEVA, E. B. ; STOCK, J. H. & VOS, A. P. C. de ; BRAGINSKI, L. P. ; PLATZMAN, S. J. ; NAGATA, K. ; *Niphargus*, GINET, R. & (**1**) ; *Limnoria* & *Chelura*, BOURDILLON, A. ; Woodlice, VANDEL, A. (**3**) ; Barnacles on artificially denuded rocks, HOSHIAI, T. ; Barnacles, MULDER, A. F. ; *Pollicipes*, BARNES, H. & REESE, E. S. ; *Tisbe*, BARNARD, J. L. & REISH, D. J. ; BATTAGLIA, B. & LAZZARETTO, I. ; *Sabelliphilus*, GOTTO, R. V. (**1**) ; Ostracods, CURTIS, D. M. ; SZÉLES, M. ; WAGNER, C. W. ; Terrestrial habits of *Mesocypris*, HARDING, J. P. ; STROMENGER-KLEKOWSKA, Z. ; *Leptodora*, SEBESTYÉN, O. ; *Penilia*, DELLA CROCE, N. ; *Daphnia* and fish stock, HRBÁČEK, J. & HRBÁČKOVÁ-ESSLOVÁ, M. ; Competition between *Simocephalus* and *Cyclops*, PARKER, R. A. ; Cladoceran remains in lake sediments, FREY, D. G. ; *Artemia*, KRISHNA, D. & BAID, I. ; *Cambarus*, MARLOW, G.

Marine habitats.—Balearic Islands, SÁNCHEZ, J. A. ; Gulf of Mexico, CHAMBERS, G. V. & SPARKS, A. K. ; Venice Lagoon, ROCH, F. ; Shore ecology, BALLANTINE, W. J. & MORTON, J. E. ; CHAMBERS, G. V. & SPARKS, A. K. ; COSTA, S. (**3**) ; KERNEIS, A. ; REMMERT, H. ; VADER, W. J. M. ; Seaweed associations, PARENZAN, P. ; Marine plankton, ACARA, A. & NALBANDOGLU, U. ; ANGELIS, C. M. de & VALLE, R. D. ; ANICHINI, C. & (**1**) ; BĂCESCU, M., SERPOIANU, N., CHIRILĂ, V., SKOLKA, H. & MANEA, V. ; BAINBRIDGE, V. ; BARTH, R. ; BATTAGLIA, B., MOZZI, C. & VARAGNOLO, A. M. ; BUNT, J. S. ; CANNICCI, G. ; CASSIE, R. M. ; CONOVER, R. J. ; DEEVEY, G. B. (**1**) ; ELSTER, H. J. ; EVANS, F. ; FURNESTIN, M. L. & (**1**) ; GALLARDO, G. V. A. ; HART, T. J. & CURRIE, R. I. ; KOS, M. S. ; KRISHNASWAMY, S. (**2**) ; LEGARÉ, J. E. & MACLELLAN, D. C. ; NUKOLAEV, I. ; PONOMAREVA, L. A. ; ROSE, M. ; SCHWARZ, S. (**1**) ; SIEBECK, O. & (**1**) ; TRÉGOUBOFF, G. ; VINOGRADOV, M. E. ; WAWRIK, F. ; WIBORG, K. F. ; Deep Sea—BACESCU, M., SERPOIANU, N., CHIRILĂ, V., SKOLKA, H. & MANEA, V. ; COGNETTI, G. & SANTARELLI, M. ; ELLIS, D. V. ; GURYANOVA, E. (**1**) ; HARTMANN, O. & BARNARD, J. L. (**0–1**) ; SANDERS, H. L. & (**1**) ; WOLFF, T. (**1**) ; ZENKEVITCH, L. A. & BIRSTEIN, J. A. ; Stomatopod, MANNING, R. B. ; Asellota, MENZIES, R. J. & TINKER, M.

Freshwater habitats.—AGUESSE, P. & BIGOT, L. ; LIEBMANN, H. ; Lakes, COLEBROOK, J. M. (**0–1**) ; COWELL, B. C. ; CZECZUGA, B. ; DAVIS, C. C. ; FARKAS, T. & HERODEK, S. ; FRIEDRICH, H. von ; GIEYSZTOR, M. ; HUBSCHMAN, J. H. ; JARVEKÜLG, A. ; KOL, E. & VARGA, L. ; LIVINGSTONE, D. A. ; LUKONINA, N. K. ; NEGORA, K. ; NICOLAU, A., POPOVICI, P. & CRISTIAN, A. ; OLIVER, D. R. ; PENNAK, R. W. ; RYBAK, J. I. ; SEBESTYÉN, O. (**1**) ; SERAFIMOVA-HADZIŠIČE, J. & (**1**) ; SLÁDEČKOVÁ, A. & SLÁDEČEK, V. ; STANKOVIC, S. ; STROMENGER-KLEKOWSKA, Z. ; TASH, J. C. & ARMITAGE, K. B. ; TETER, H. E. ; WELLS, L. ; ZELINKA, M. ; Ponds, DAVIS, C. C. ; MÜNCHBERG, P. ; WAWRIK, F. (**1**) ; Rivers, HOLDEN, M. J. & GREEN, J. ; SLÁDEČKOVÁ, A. ; River Limnol., STEPÁNEK, M. & HAVLÍK, B.

Brackish water habitats.—D'ANCONA, U. ; ELSTER, H.-J. ; JOHNSON, M. W. (**2**) ; LIEBMANN, H. ; SCHACHTER, D. ; WIKTOR, J.

Terrestrial habitats.—Ostracods, CHAPMAN, A. ; HARDING, J. P.

Subterranean habitats.—CHAPPUIS, P. A. & ROUCH, R. ; COTTI, G. ; DELAMARE-DEBOUTTEVILLE, C. ; GINET, R. (**1**) ; GOUNOT, A.-M. ; HOBBS, H. H. & BARR, T. C. ; HOLTHUIS, L. B. (**4**) ; HUSSON, R. ; KIEFER, F. (**3**) ; KULHAVY, V. ; MAGUIRE, B. ; MATSUMOTO, K. ; NICHOLAS, G. ; RUFFO, S. (**1**) ; SCHULZE, E. & UHLMANN, D. ; TORII, H. ; VORNATSCHER, J.

Interstitial habitats.—CHAPPUIS, P. A. ; DELAMARE-DEBOUTTEVILLE, C. ; HUSMANN, S. (**0–1**) ; SPOONER, G. M. (**1**) ; KIEFER, F. (**5**) ; PONYI, J. ; WIESER, W.

Environmental effects.—Effects of temperature, CRISP, D. J. (**3**) ; MARKOWSKI, S. ; On *Pagurus*, FRAENKEL, G. ; On development of *Sesarma*, COSTLOW, J. D., BOOKHOUT, C. G. & MONROE, R. ; On lengths of Copepods, DEEVEY, G. B. ; On *Tigriopus*, MATUTANI, K. ; On reproduction of *Bythotrephes*, MORDUKHAI-BOLTOVSKAJA, E. D. ; On breeding & moulting of barnacles, PATEL, B. & CRISP, D. J. (**1**) ; On *Hemigrapsus*, TODD, M. E. & DEHNEL, P. A. ; On sex determination in *Gammarus*, TRAUT, W. ; On *Penaeus* and osmosis, WILLIAMS, A. B. ; On sodium metabolism in *Asellus*, LOCKWOOD, A. P. M. ; On *Limnoria*, BECKMAN, C. & MENZIES, R. ; On *Uca*, PASSANO, L. M. ; VERNBERG, F. J. ; WILKENS, J. L. ; *Balanus*, resistance to drying, ABEL, Ch. & SUBKLEW, H. J. ; Desiccation of *Lepidurus* eggs, CHAIGNEAU, J. ; On *Chirocephalus* eggs, NOURISSON, M. ; Effect of wind on emergence of arthropods, CLOUDSLEY-THOMPSON, J. L. ; Polarised light on *Daphnia*, SMITH, F. E. & BAYLOR, E. R. ; Plankton and salinity changes, HOPPER, A. F.

Toxins.—Insecticides, BRAGINSKY, L. P. & ROTOVSKAYA, L. P. ; LÜDEMANN, D. & NEUMANN, H. ; Toxic agents on crustacea, SPARROW, B. W. ; Irradiation, HUTCHINSON, F. & EASTER, S. S. ; SIEBECK, O.

Naturalisation and Acclimatization.—BROCK, V. E. ; MORDUCHAI-BOLTOVSKOI, F. D. & MITROPOLSKIJ, V. I. ; NAYLOR, E. (**1**).

Migration.—LEERSNYDER, M. de ; Sporadic shoreward migration of crabs, LOESCH, H. ; Plankton, SIEBECK, O. ; *Daphnia* & *Mysidium*, WATERMAN, T. H. ; *Calanus*, MARSHALL, S. M. & ORR, A. P. ; *Euphausia*, BAKER, A. de C. ; *Mysis*, BEETON, A. M. ; Copepods, HEINRICH, A. K. ; Shrimps, HEYLIGERS, P. C. ; *Panulirus* larvae, JOHNSON, M. W.

Migrations.—*Meganyctiphanes*, AITKEN, J. J. ; MAUCHLINE, J. ; *Limnoria* & *Chelura*, BOURDILLON, A.

Population studies.—SLOBODKIN, L. B. ; Copepoda, BATTAGLIA, B. & LAZZARETTO, I. ; COMITA, G. W. & ANDERSON, G. C. ; SUTCLIFFE, W. H. ; *Potamon*, TURNBULL-KEMP, P. J. ; *Sphaeroma*, BOCQUET, C., LEJUEZ, R. & TEISSIER, G. ; *Labidocera*, CRISAFI, P. (**3**) ; *Daphnia*, FISCHER, Z. ; FRANK, P. W. ; *Myocheres*, HUMES, A. G. & CRESSEY, R. F. (**3**) ; *Chthamalus*, KATO, M., HAYASAKA, K. & MATSUDA, T.

Diurnal and other rhythms.—Seasons, crayfish. MEREDITH, W. G. & SCHWARTZ, F. J. ; *Eurytemora*, MALOVITSKAJA, L. M. ; *Mesocyclops*, MONAKOV, A. V. (**1**) ; Diurnal rhythms, *Orconectes*, SUTIN, C. ; Copepods, MOORE, H. B. & BAUER, J. C. ; *Idotea* melanophores, OGURO, C. (**2**) ; Tidal rhythm in *Uca*, FINGERMAN, M. & others.

Biometrics.—Copepod larvae, BORUTSKY, E. V. ; *Cyclops*, DUSSART, B. ; Ostracods, KESLING, R. V. & TAKAGI, R. S. ; WISE, C. D.

Feeding mechanisms.—*Idothea*, CRUZ, A. de la ; *Caridina*, FRYER, G.

Behaviour.—*Pollicipes*, BARNES, H. & REESE, E. S. ; *Gecarcinus* during premoult, BLISS, D. E. ; *Pachygrapsus*, BOVBJERG, R. V. ; Courtship behaviour in *Pachygrapsus*, BOVBJERG, R. V. (**1**) ; Plankton, CONOVER, R. J. ; Mobility in barnacles, CRISP, D. J. (**1**) ; Cyclopoids attacking fish fry, FABIAN, M. W. ; Swimming in *Macropodia*, HARTNOLL, R. G. (**1**) ; Arthropod polarized light perception, JANDER, R. & WATERMAN, T. H. ; *Lernaeocera*, KABATA (**1**) ; Xanthidae, KNUDSEN, J. W. ; *Meganyctiphanes*, MAUCHLINE, J. ; *Carcinus*, NAYLOR, E. ; Orientation of *Daphnia* & *Mysidium*, WATERMAN, T. H. ; Orientation in *Mixodiaptomus*, SCHRÖDER, R. ; Polarized light orientation of *Daphnia*, SMITH, F. E. & BAYLOR, E. R. ; *Daphnia*, BOTNARIUC, N., SPATARU, P. & NEGREA, St. ; RIMET, M. & (**1**) ; *Limnoria* & *Chelura*, BOURDILLON, A.

Predators.—Barnacles by Xanthids, MCDERMOTT, J. J. ; Turbellaria on barnacles, SKERMAN, T. M.

Parasitism.—JOSHI, U. N. & BAL, D. V. (**1**) ; *Rhizorhina* on *Ampelisca*, BĂCESCU, M. & MAYER, R. ; Ciliates on *Palaemon*, DEBAISIEUX, P. ; *Parathelphusa* host of *Pleurogenoides*, DISSANAIKE, A. S. & FERNANDO, C. H. ; Potamonids, FERNANDO, C. H. ; Fish parasites, GOLIKOVA, M. N. ; GORDON, B. L. ; Microsporidan on *Penaeus*, IVERSEN, E. S. & MANNING, R. B. ; Crustacean hosts for tapeworms, JARECKA, L. ; Xanthidae, KNUDSEN, J. W. ; Parasites of benthic fauna, Barents Sea, OUSPENSKAIA, A. V. ; Crustacea as intermediate host of Helminthes, SHEVCHENCO, N. N. & BARABASHOVA, V. N. ; Crabs & crayfish as second intermediate hosts of *Paragonimus*, YOKOGAWA, S. & M. & CORT, W. W. ; Copepods, BOCQUET, C. & STOCK, J. H. & (**1**) ; STOCK, J. H. (**3**) ; FRYER, G. (**1**) ; DOLLFUS, R. Ph. ; DELAMARE-DEBOUTTEVILLE, C. & LAUBIER, L. & (**1**) ; RANGNEKAR, M. P. ; KRISHNASWAMY, S. (**1**) ; Lamippidae, BOULIGAND, Y. & (**1**) ; Harpacticids in branchial cavity of crabs, FELTKAMP, C. A. ; *Sabelliphilus*, GOTTO, R. V. (**1**) ; *Myocheres* on pelecypods, HUMES, A. G. & CRESSEY, R. F. (**3**) ; *Anchistrotus* on Filefish, HUMES, A. G. & ROSENFIELD, D. C. ; *Leptinogaster*, JEPSEN, U. ; *Lernaeocera*, KABATA, Z. (**1**) ; *Clavella* on Gadoids, KABATA, Z. (**2**) ; *Nicothoë*, MASON, J. ; *Anchistrotos*, ROUNDS, H. D. ; *Parapharodes*, SHIINO, S. M. ; *Sphyrion* on Redfish, TEMPLEMAN, W. & SQUIRES, H. J. ; *Nosenia* on *Lepidurus*, VAVRA, J. ; *Mytilicola* infecting *Mytilus*, VILELA, H. & MONTEIRO, M. M. C. ; Abnormal *Tracheliastes*, VIVIER, P. ; *Mytilicola*, WICKSTEAD, J. ; Rhizocephala, *Sacculina*, BOSCHMA, H. & (**1–3**) ; BOURDON, R. ; *Heterosaccus* on *Neptunus*, GEORGE, A. I. ; *Peltogasterella*, YANAGIMACHI, R. ; Isopoda, BAL, D. V. & JOSHI, U. N. ; CASTRO, A. L. de ; *Lironeca*, BOWMAN, T. E. ; *Entionella* on *Eurynome*, HARTNOLL, R. G. ; *Diogenion* on *Diogenes*, CODREANU, R. & M. & PIKE, R. B. ; Bopyridae, PIKE, R. B. ; Epicaridea, STOCK, J. H. (**1**) ; Microflora of hepatopancreas of *Cambarus*, BRISOU, J., TYSSET, C. & JACOB, A. ; Bacteria in Prawns, VELANKAR, N. K.

Commensalism.—*Colomastix* and *Tritaeta* in sponge, BĂCESCU, M. & MAYER, R. ; *Simulium* and *Potamon*, BROWNE, S. G. ; Pinnotherid & Polychaete, DAVENPORT, D., CAMOUGIS, G. & HICKOK, J. F. ; Epibionts of Mysidacea, HOENIGMAN, J. ; *Petrolisthes* and *Stoichactis*, GORDON, I. (**4**) ; *Stenopus* & fish, GROBE, J. ; Epizootic ostracod, HART, C. W. ; *Nerocila*, HYDROID and polyzoan associates, PILLAI, N. K. ; Actiniarian on *Dorippe*, UCHIDA, T. ; Epibiontes of Corycaeidae, ZAVODNIK, D. Epibiontes of Corycaeidae, ZAVODNIK, D.

GEOGRAPHICAL DISTRIBUTION

Dispersal of *Balanus*, UTINOMI, H. ; Copepods, BREHM, V. (**2**) ; Distribution of *Palaemon* and Satpura hypothesis, TIWARI, K. K. (**1**).

1. LAND AND FRESHWATER

PALEARCTIC REGION

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Madagascar.—Kiefer, F.

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CENTRAL AMERICA

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Brazil.—Lopez, M. T. & Sawaya, P. ; Paiva, M. P. & Barreto, A. de ; Szidat, L. & Schubart, O.

Venezuela.—Menzies, R. J. & Robinson, D. J.

Argentine.—Brehm, V. ; Cavalieri, F. ; Delamare-Debouttéville, C.

MARINE

Arctic Ocean.—Bowman, T. E. ; Ellis, D. V. ; Guryanova, E. & (1) ; Kudersky, L. A. ; Ouspenskaia, A. V.

NORTH TEMPERATE

North Atlantic.—Barnes, H. & M. (1) ; Cléret, J. J. ; Fage, L. ; Forest, J. & Gantès, H. ; Templeman, W. & Squires, H. J. ; European side, Bocquet, Lejuez, R. & Teissier, G. ; Bocquet, C. & Stock, J. H. & (1) ; Bourdon, R. ; Lejuez, R. (1) ; Vilela, H. & Monteiro, M. M. C. ; American & Canadian side, Allen, D. M. & Inglis, A. ; Anon. (3) ; Bousfield, E. L. & Leim, A. H. ; Cargo, D. G. ; Causey, D. (1) ; Deevey, G. B. (1) ; Eldred, B. ; Grice, G. D. (1) ; Hoese, H. D. ; Holthuis, L. B. (3) ; Humes, A. G. & Cressey, R. F. (3) ; Humes, A. G. & Rosenfield, D. C. ; Hutton, R. F. ; Legaré, J. E. & Maclellan, D. C. ; Loesch, H. ; McRae, E. D. ; Reid, G. K. ; Sanders, H. L. ; Sanders, H. L. (1) ; Schwartz, F. J. & Cargo, D. G. ; Tattersall, O. S. (1) ; Tomlinson, J. T. & Newman, W. A. ; Trites, R. W. ; Yang, W. T. ; Wells, H. W. & M. J. & Grey, I. E. ; Wieser, W. ; Wigley, R. L. & (1) ; Wilder, D. G. ; Williams, A. B. (1).

British Coastal Waters.—Allen, J. A. ; Crisp, D. J. (2) ; Hartnoll, R. G. & (2) ; Hepper, B. T. ; Mauchline, J. ; Naylor, E. (1) ; Powell, H. T. ; Reddiah, K. ; Spooner, G. M. (1) ; Williamson, D. I. (1) ; Wisely, B. ; Irish Coast, Aitken, J. J. ; Duhig, M. ; Gotto, R. V. ; Hillis, J. P. & O'Riordan, C. E.

English Channel.—Boschma, H. ; Bocquet, C. & Stock, J. H. & (1) ; Stock, J. H. (2).

North Sea.—WIBORG, K. F. ; NOODT, W.

Netherlands Coast.—HARTOG, C. den & TULP, A. S.

Baltic Sea.—ENGELBRECHT, H. ; NIKOLAEV, I. ; NOODT, W. (2) ; SCHWARZ, S. (1) ; TULKKI, P.

Mediterranean.—AGUESSE, P. ; ANICHINI, C. & (1) ; ANGELIS, C. M. de & VALLE, R. D. ; BOURDILLON, A. ; BOURDILLON-CASANOVA, L. ; BOZIĆ, B. ; CANNICCI, G. & (1) ; COGNETTI, G. & SANTARELLI, M. ; COSTA, S. & (1–3) ; CONSIGLIO, C. ; CRISAFI, P. & (1–3) ; DELAMARE-DEBOUTTEVILLE, C. & LAUBIER, L. ; DIEUZEIDE, R. ; DION, Y. & NOUVEL, H. ; FAGE, L. ; FOREST, J. & HOLTHUIS, L. B. ; FURNESTIN, M.-L. ; GOTTLIEB, E. ; HARTMANN, G. ; KERNEIS, A. ; KIEFER, F. (2) ; ; MATTA, F. ; MAURIN, C. ; NOUVEL, H. ; PARENZAN, P. ; PETIT, G. ; PIKE, R. B. & WILLIAMSON, D. I. & (1) ; SACHEZ, J. A. ; SCHAGHTER, D. ; STOCK, J. H. (3) ; TINTURIER-HAMELIN, E. & (1) ; TRÉGOUBOFF, G.

Adriatic.—BATTAGLIA, B., MOZZI, C. & VARAGNOLA, A. M. ; CODREANU, R. ; HOENIGMAN, J. ; EISELT, J. ; ROUNDS, H. D.

Aegean Sea.—DEMIRHINDI, U.

Sea of Marmora.—DEMIRHINDI, U. ; NOODT, W. (1).

Black Sea.—ARBUZOVA, K. S. & PATRIKEEV, V. V. ; BACESCU, M. ; BACESCU, M. & MAYER ,R. ; BACESCU, M., SERPOIANU, N., CHIRILÁ, SKOLKA, H. & MANEA, V. ; CARAION, F. E. ; MAKKAVEEVA, E. B. ; MARCUS, A. ; MARCUS, A. & POR, F. ; POR, F. & (1) ; PORA, A. E. ; STOICOVICI, Fl., RUSDEA, D., WITTENBERGER, C. & KOLASOVITH, H. ; SAZHINA, L. I. ; SERBAN, M. ; VALKANOV, A.

NORTH PACIFIC

North Pacific.—BODEN, B. P. & BRINTON, E. ; BOWMAN, T. E. ; FAGE, L. ; American coast, BARNARD, J. L. & (1) ; BARNARD, J. L. & GIVEN, R. R. ; BARNARD, J. L. & REISH, D. J. ; BOYD, C. M. ; BRINTON, E. ; BUTLER, T. H. ; HAIG, J. ; HART, J. F. L. ; HARTMAN, O. & BARNARD, J. L. & (1) ; HILGARD, G. H. ; ILLG, P. L. ; JOHNSON, M. W. & (1) & (2) ; KNUDSEN, J. W. & (1–2) ; TATTERSALL, O. S. (1) ; U.S.S.R. & Japanese Coasts, BIRSTEIN, J. A. ; GAMO, S. & (2) ; GURYANOVA, E. (2) ; HARADA, I. ; HOLTHUIS, L. B. (3) ; KATO, M., HAYASAKA, K. & MATSUDA, T. ; KOS, M. S. ; PONOMAREVA, L. A. ; SHIINO, S. M. ; VINOGRADOV, M. E. & (2) ; ZARENKOV, N. A. & (1).

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Indo-Pacific Ocean.—BANERJEE, S. K. ; BUITENDIJK, A. M. ; BIRSTEIN, J. A. & VINOGRADOV, N. G. ; FAGE, L. ; HEINRICH, A. K. ; ROSE, M. ; TATTERSALL, O. S. ; VINOGRADOV, M. E. (1) ; Indian Ocean & Red Sea, BAL, D. V. & JOSHI, U. N. ; BHATT, Y. M. & BAL, D. V. ; BOSCHMA, H. (3) ; CHEUNG, T. S. ; CODREANU, R. & M. & PIKE, R. B. ; GANAPATI, P. N. & LAKSHMANA RAO, M. V. ; GARTH, J. S. ; GUINOT-DUMORTIER, D. (1) ; HOLTHUIS, L. B. (3) ; HUMES, A. G. ; HUMES, A. G. & CRESSEY, R. F. (0–4) ; JOHNSON, D. S. ; JONES, S. ; JOSHI, U. N. & BAL, D. V. ; KARANDE, A. & INAMDAR, N. B. ; KIRTISINGHE, P. ; KRISHNASWAMY, S. (4–5) ; RANGNEKAR, M. P. ; SHAIKHMAHMUD, F. S. & TEMBE, V. B. ; TANAKA, O. ; VENKATARAMAN, R., SAMBANDA, P. S. & MAHADEVAN, S. ; WICKSTEAD, J. ; VILLALOBOS, F. A.

SOUTH TEMPERATE

South Atlantic Ocean.—FAGE, L. ; GUINOT-DUMORTIER, D. ; HOLTHUIS, L. B. (3) ; RUFFO, S.

South African Waters.—JONES, N. S. (1) ; SMITH, J. L. B.

Australian Waters.—ANON. ; GILLETT, K. & MCNEILL, F. ; STEPHENSON, W. ; TRIEBEL, E.

New Zealand Waters.—CASSIE, R. M. ; DELL, R. K. ; HURLEY, D. E. (1) ; JONES, N. S. ; RICHARDSON, L. R. & YALDWYN, J. C. ; SKERMAN, T. M. & (1) ; YALDWYN, J. C.

South Pacific Ocean.—BANNER, A. H. & D. M. & (1–2) ; BAHAMONDE, N. N. ; American Pacific Coast, BAHAMONDE, N. & LOPEZ B., M. T. ; BODEN, B. P. & BRINTON, E. ; BOWMAN, T. E. ; FAGE, L. ; GALLARDO, G. V. A. ; GRICE, G. D. & JONES, E. C. ; GUAITA, E. F. ; HOLTHUIS, L. B. (3) ; NEWMAN, W. A. ; STUARDO, J. & FAGETTI, E. ; TATTERSALL, O. S. (1).

ANTARCTIC

Antarctic Ocean.—BAKER, A. de C. ; STOCK, J. H. (4) ; BUNT, J. S. ; HURLEY, D. E. ; TANAKA, O.

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PALAEOZOIC

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Ordovician.—KESLING, R. V. (1); KESLING, R. V. & others.

Silurian.—ABUSHIK, A. F. ; KRANDIEVSKY, V. S. ; COPELAND, M. J. ; KESLING, R. V. & PLOCH, R. A. ; ZASPELOVA, V. S.

Carboniferous.—RESHETNIKOVA, M. A.

Permo-Carboniferous.—BHATIA, S. B.

Permian.—BIRSTEIN, Y. A. (1) ; BRANSON, C. G. ; PALANT, I. B. ; ROUX, S. F. le.

MESOZOIC

KAZMINA, T. A.

Triassic.—CRAMER, H. R. ; MENDES, J. C. ; NAGY, E. (0–1) ; LYUBIMOVA, P. S.

Jurassic.—BACHMAYER, F. ; BLASZYK, J. ; DONZE, P. ; OERTLI, H. J. (3) ; BIZON, J. J.

Cretaceous.—BALL, H. W. ; BATALLER, J. R. ; DEROO, G. ; GREKOFF, N. (1).

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Oligocene.—Mandel'shtam, P. S. ; Oertli, H. J. (**4**).

Miocene.—Comaschi Caria, I. ; Guha, D. K., Tewari, B. S., Tanden, K. K. & Bhargava, O. N. ; Kollmann, K. ; Veiga Ferreira, O. da ; Oertli, H. J. (**4**) ; Ruggieri, G. (**1**) ; Zhizhchenko, B. P. (**1**).

Pliocene.—Medioli, F. ; Emerson, W. K. & Hertlein, L. G. ; Pokorny, N. ; Zalányi, B.

Pleistocene.—Brooks, H. K. & Ross, A. ; Emerson, W. K. & Hertlein, L. G. ; Hiltermann, H. & Luttig, G. ; Byrne, J. V. & others ; Pucci, A.

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†*Schuleridea* cf. *triebeli* Jurassic, Germany, p. 433 fig., *Schuleridea* sp. 1, Jurassic, Germany, p. 434 figs., LUTZE, G. F. ; *S. wendensis* **nom. nov.**, p. 210 figs., *S. rhomboidalis* p. 210 figs., **sp. nov.** Cretaceous, England, *S. bilobata* figs., *S.* aff. *thorenensis* figs., NEALE, J. W. ; *S. ampulla* **sp. nov.**, 1959, Eocene-Oligocene, Central Asia, p. 473 figs., MANDEL'SHTAM, P. S. ; *S. rauracica* **sp. nov.** Rupelian, Switzerland (1956), p. 47 figs., OERTLI, H. J. (**4**) ; *S. triebeli oblonga* **subsp. nov.** p. 18, *S. ? suprajurassica* **sp. nov.** p. 19 figs., Jurassic, DONZE, P. ; *S.* (*Aequacytheridea*) aff. *rauracica*, *S. rhombus* figs., KOLLMANN, K. ; *S. triebeli* figs., BIZON, J. J. ; *S. triebeli* figs., OERTLI, H. J. (**3**).

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†*Vernoniella sequana* **gen. et sp. nov.** (1957, Jurassic, France, p. 659 figs., OERTLI, H. J. (**3**) ; *V.* sp. cf. *sequana* fig., LUTZE, G. F.

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†*Amphissites trinodosa* **sp. nov.,** 1959, Devonian, Russian Platform, p. 49 figs., ZASPELOVA, V. S. ; *A. duvernai* p. 196 figs., *A. beaumontensi* p. 196 figs., *A. genetivus*, p. 197 figs., *A. shafferi* p. 197 figs., *A. albertensi* p. 196 figs., **spp. nov.** Devonian, Alberta, LORANGER, D. M. (**1**)

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†*Chesterella misella* p. 31, *C. costata* p. 32, **spp. nov.,** 1959, Devonian, Russian Platform, figs., ZASPELOVA, V. S.

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†*Famenella misera* **sp. nov.,** 1959, Devonian, Russian Platform, p. 58 figs., ZASPELOVA, V. S.

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†*Kloedenellitina valdajensis* **sp. nov.,** 1959, Devonian, Russian Platform, p. 26 figs., ZASPELOVA, V. S.

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